AN 1986-255520 [39] WPIDS DNC C1986-110297 High temperature corrosion resistant steel in calcium sulphate environment -TIcomprised carbon, silicon, manganese, chromium, nickel, and iron. DC PA(SUMQ) SUMITOMO METAL IND LTD CYC 1 PIJP 61183452 A 19860816 (198639)\* 5 ADT JP 61183452 A JP 1985-23905 19850209 PRAI JP 1985-23905 19850209 JP 61183452 A UPAB: 19930922 High Mn steel comprises, by weight, up to 0.20% C, 0.1-2.0 % Si, 2.0-7.0% Mn, 14-26% Cr, 8-30%  ${\tt Ni}$  and the balance substantially  ${\tt Fe.}$  The steel may contain up to 0.1% in total at least one Y, REM, Mg or Ca to improve the corrosion resistance and/or at least one 0.03-0.40% N, 0.05-1.5 Ti, 0.05-1.5% Nb or 0.05-1.5% Zr to improve the strength by precipitation hardening of carbonitrides. Further, the steel may contain up to 3% Mo, up to 3% W, up to 3% V, up to 7% Cu, up to 0.5% Al, up to 0.01% B, up to 0.02% P and/or up to 0.05% S. Pref., total contents of Cr and Mo is 20% or more. USE/ADVANTAGE - Used for steel pipes placed in a fluid bed in fluid bed boilers. The high temperature corrosion resistance under conditions

with CaSO4 is improved by the addition of Cr with Mn. The addition of Mn is effective to depress the formation of sulphides in the steel and improves the corrosion resistance. The additives Cr improves the corrosion resistance. The additive Ni makes the structure austenitic.